Avadhesh Kumar Shah

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EDUCATION

VIT Bhopal University   **Expected 05/2027**
Int. master of Technology in Computer Science and Engineering (GPA: 9.23 / 10.00)   *Bhopal, Madhya Pradesh*

Govt. Excellence HS School Singrauli   **05/2022**
Senior Secondary School Certificate (Class XII) - 92.6%   *Singrauli, Madhya Pradesh*

Govt. Excellence HS School Singrauli   **05/2020**
High School Certificate (Class X) - 96%   *Singrauli, Madhya Pradesh*

TECHNICAL SKILLS

Programming Languages: C++, SQL, Python, JavaScript, HTML, CSS, Git, R, Java
Frameworks & Libraries: TypeScript, React.js, Node.js, Express.js, NLP, OpenCV, Tensorflow, Machine Learning
Cloud & Databases: AWS (S3, Athena, EC2), MongoDB, MySQL
Relevant Coursework: Data Structure & Algorithms (DSA), Operating System (OS), Computer Network (CN), DBMS

PROJECTS

FunStrike4 – AI Powered Connect4 WebGame | *React, TypeScript, Node.js, AI, Canvas API, JavaScript*   **July'25**
- Implemented an interactive Connect 4 game featuring dual gameplay modes: competitive 2-player (local) and single-player vs AI. Featuring a smart opponent.
- A7x6 grid system with turn-based disk placement, supporting win-condition checks (horizontal, vertical, diagonal).
- AI-driven gameplay using Minimax with Alpha-Beta Pruning and Zobrist Hashing, enhancing move efficiency and achieving a 95% AI win/draw rate against intermediate players.

Automated Grading System – AI-based Text Analysis and Feedback System | *Python, NLP, ML, Django*   **July'24**
- Developed a Grading Model system for analysis of Assignment texts along with a Performance & Feedback dashboard.
- Implementing the solution by using NLP techniques (Tokenization, Lemmatization), Machine learning for text analysis, grading, and feedback system on student assignments with more than (92% accuracy).

Well-Scan – Healthy Organs Checkup | *Python, Django, OpenCV, MongoDB, ML, Gemini API*   **Dec'23**
- Designed an AI-driven healthcare platform to predict organ-specific conditions (heart, kidney, thyroid, arthritis, liver) and diseases (e.g., diabetes), achieving over 90% accuracy with Random Forest and Decision Tree models.
- Integrated a Gemini API-powered chatbot using Python, Django, and OpenCV, delivering 24/7 medical guidance.
- Enhanced user experience by incorporating real-time doctor availability; this innovation resulted in a 25% reduction in missed appointments.

CODING PROFILES

Competitive Programming (Leetcode, GeeksforGeeks & Codeforce)   **(Jan'2023 - Present)**
Solved 600+ Algorithmic and Data Structure Problems
- **Leetcode:** Solved 383 problems in C++ on Leetcode Plateform (Global Rank : 251K) (leetcode.com/u/avadhesh_04/)
- **GeeksforGeeks:** Solved over 400+ DSA problems (University Rank: 296) (geeksforgeeks.org/avadheshkumlm8q)
- **Codeforce:** Solved over 150+ DSA problems (Codeforce Rating: 1100) (https://codeforces.com/profile/Avadhesh_04)

ACHIEVEMENTS & RESPONSIBILITIES

- **STARS Scholarship:** Awarded a 100% Scholorship by VIT Bhopal University.
- **Scholarship for Higher Education (INSPIRE SHE):** Ranking in the top 1% of Class XII examinations.
- **Cloud Zone Club (VIT Bhopal):** Organized 5+ Hackathons and coding competitions in VIT Bhopal.

CERTIFICATIONS

- **Coursera:** Generative AI with Large Language Models
- **Microsoft:** Microsoft Azure for Data Engineering